

CLAIMS

1. A connection structure between a coaxial connector and a multilayer board comprising:

a casing;

a coaxial connector provided in this casing, and having a core wire;

a multilayer board provided in the casing, and having a first signal line pattern;

a transfer board provided in the casing located between this multilayer board and the coaxial connector, having a second signal line pattern, and formed so that the thickness of the transfer board is smaller than the thickness of the multilayer board;

a connecting means for electrically connecting the core wire of the coaxial connector and the second signal line pattern; and

a transmission line that electrically connects the first signal line pattern to the second signal line pattern, and suppresses an electromagnetic field distribution in an inward direction of the multilayer board.

2. A connection structure between a coaxial connector and a multilayer board comprising:

a casing formed of an upper floor, a lower floor, and a sidewall adjacent to the upper floor;

a coaxial connector provided on the sidewall, and having

a core wire;

a multilayer board provided on the lower floor, and having a first signal line pattern;

a transfer board provided on the upper floor, and having a second signal line pattern;

a connecting means for electrically connecting the core wire of the coaxial connector and the second signal line pattern; and

a transmission line that electrically connects the first signal line pattern to the second signal line pattern, and suppresses an electromagnetic field distribution in an inward direction of the multilayer board.

3. A connection structure between a coaxial connector and a multilayer board according to Claim 1, wherein the transmission line is a coplanar-type transmission line.

4. A connection structure between a coaxial connector and a multilayer board according to Claim 2, wherein the transmission line is a coplanar-type transmission line.

5. A connection structure between a coaxial connector and a multilayer board according to Claim 1, wherein the multilayer board that has the first signal line pattern includes a microstripline-type transmission line or a coplanar-type transmission line.

6. A connection structure between a coaxial connector and a multilayer board according to Claim 2, wherein the multilayer board that has the first signal line pattern includes a microstripline-type transmission line or a coplanar-type transmission line.

7. A connection structure between a coaxial connector and a multilayer board according to Claim 1, wherein the transfer board has a second backside ground pattern, and this second backside ground pattern and the second signal line pattern are electrically connected by use of a via hole formed on the side of the multilayer board.

8. A connection structure between a coaxial connector and a multilayer board according to Claim 2, wherein the transfer board has a second backside ground pattern, and this second backside ground pattern and the second signal line pattern are electrically connected by use of a via hole formed on the side of the multilayer board.